

FRESHMEN CAST HEAVY VOTE

THE TECH CONQUERS TECHNIQUE TEAM; SCORE 7 TO 0

PUBLICATIONS END ANNUAL GAME WITH BANQUET AT CLUB

Forward Passing Combination
Of Smith to Truax Wins
Game for Newsies

RODDY GETS EXTRA POINT

After a stubbornly fought battle for over three-quarters of the game, THE TECH crashed through in the last few minutes of play last Wednesday afternoon to score the only touchdown of the annual contest with Technique. A forward pass from Greg Smith, right halfback, to Harmon Truax, left end, was successfully completed and won the game for the newsies. The extra point was scored when Roddy, right end, caught a forward pass again thrown by Smith. The game ended shortly after this with the score of 7-0 in favor of THE TECH.

Technique Receives

At 2:30 o'clock there were only a few of the players on the field but by 3 o'clock there were enough men there to start the game. Tul Houston, captain of THE TECH team and Parker Starratt, captain of the Technique aggregation, tossed for positions and Technique elected to receive the ball. For a few minutes after the kick-off the playing was fast and furious but neither team was able to gain very much.

During the first quarter the teams saw-sawed back and forth and at no time was either goal threatened. In the second quarter the Technique team made several large gains and pushed up to THE TECH'S 29-yard (Continued on Page 3)

Architects Hold Open Bowery Ball In "Hole" Tonight

Decorations Furnished by Old
Howard Add Atmosphere
To Occasion

The first dance of the social season will be given by the Architectural Society at 9 o'clock tonight in the Exhibition Room, Rogers Building. The dance will be entirely costume, the costumes being as tough as possible, in keeping with spirit with the affair, but the less clothes worn the more appropriate the outfit will be. The price of admission is \$1.50 per couple or stag, and tickets may be procured at the Voo Doo office, or at the T. C. A. office.

"Hogan's Hole" is entirely fixed up to conform with the occasion and the exterior completed by the decorations committee. The outside is a two-story ramshackle dwelling with a saloon on the lower floor. The entrance to the Hole will be through a pair of old-fashioned swinging doors, which have been borrowed for the dance. The upper floor has three windows, and a bit of femininity is delicately displayed in the center window, which has a sign below it stating blandly "Open Tonight." The interior will be furnished in the manner of an old fashioned bar-room, the tables and saw-dust covered floor occupying a prominent place in the display. Scattered in the corners will be several bottles placed for effect. The Old Howard Theatre has loaned the Architectural Society several posters and drawings for the dance.

The entertainment committee announces that they have procured Mr. Henry K. Crowell a soft-shoe dancer, and Mr. F. R. Hurt, a patter-artist, to entertain during the intermission. The Commons Room will be open during the dance as a lounge.

Several of the members of the Architectural Society have been searching Chelsea for a couple of "hard-boiled eggs" who will be successful in keeping out any determined crashers. They have reported that they have two 250 pound men in line for the job.

Frosh Investigators Learn About Gas-Laws

Two scientifically-inclined freshmen in the first-year chemistry laboratory, tiring of their theoretical ionization experiments, eluded the watchful eyes of their instructors and set out to transform one of "Beaker Joe's" washbottles into a fire-extinguisher. But the inexperienced yearlings had woefully underestimated the amount of carbon dioxide that could be generated by mixing sodium bicarbonate and sulphuric acid. When the bottle was inverted the gas pressure blew out the stopper and squirted the liquid all over the suits of the unfortunate experimenters.

Coach McCarthy Expects Popular Basketball Team

Annual Exhibition Game to be
Held in Hangar Gym on
December 6

This year the annual demonstration game played before the Intercollegiate Athletic Association officials will be held in the Hangar Gym on December 6. The game was originally planned to be played in the Hemenway Gymnasium at Harvard, but due to a misunderstanding in the schedule of the Gymnasium, the Hangar at Technology will be used. Since the Varsity plays New Bedford on the following evening, the two teams that will play the exhibition will be selected from the Varsity and freshman squads.

Freshmen Squad Cut

"I expect a good team that will prove as popular as last year with the dorm cheering section," remarked Coach MacCarthy as he watched the candidates practice shooting at the basket. The basketballers will have one of the biggest schedules in the history of the sport, and are expected to make as creditable a showing as the quintet of last year. The first string to represent Technology will not be picked until the week before the first game. No cuts have yet been made in the present Varsity squad which consists of nearly twenty-five candidates, while the yearlings had one cut last week. Another cut of the freshman list will be made this week after several tryout games.

The freshman squad consists of the following men:

Dame, Farnam, Hass, Katz, Smith, Jewell, Wehmiller, Brockleman, Woodbury, Feustel, Shea, Hudson, and Hayden.

TAU BETA PI ELECTS SEVENTEEN NEW MEN

Honorary Fraternity Chooses
14 Seniors and 3 Juniors

Fourteen Seniors and three Juniors were elected to Tau Beta Pi at a meeting of the Technology chapter of the national honorary society for engineering schools held last Tuesday evening in the Faculty Dining Room of Walker Memorial.

Those men who were chosen from the Senior Class will be the last members of the Class of 1930 to be elected to this fraternity. The men selected are Leslie W. Engler, Wilfred F. Howard, Richard G. Orleman, Benjamin C. Buerk, Rollin LaB. Rosser, George W. Schaible, Howard S. Gardner, Theodore A. Riehl, Gregory Smith, Edward M. Jenkins, Parker H. Starratt, Robert M. Nelson, Perm Limpavasti, and Edwin M. Kingsley. The Juniors who were elected are Richard H. Yates, Joseph B. Birdsell, and William P. G. Hall.

Initiation of these men will be held on December 14. They are selected on a basis of scholarship, activity work, leadership, character, and personality, the Seniors being from the upper quarter of the class and the Juniors from the upper eighth.

INTRAMURAL MEET TO DECIDE CLASS TRACK SUPREMACY

Fifteen Events Will Make Up
Program in Last Meet
On Tech Field

FRESHMEN ARE FAVORED

While the Varsity and freshman harrier teams are priming themselves for the crucial test at New York next Monday in the Intercollegiate, the rest of the track enthusiasts at the Institute are making ready for the fall Interclass meet. This will be held tomorrow to determine the class supremacy in track. Fifteen events will be run, including eight track events and seven field events.

Last Outdoor Meet

This is the last meet to be held on the cinder track this fall, as training for the winter board season will start immediately after the Intercollegiate in Cross-Country are over. All freshmen substituting track for P. T. must take part in this meet and will be required to report at the track house at 2 o'clock tomorrow. In order to promote better relations between the men out for freshman track, each man will wear his name on the front of his shirt for this meet. This will enable the men to learn the names of their teammates, a thing they have been sadly neglecting during the past.

Stars In All Events

Shaw, Broder, and Peck are the pick of the field in the sprints, the 100 yard dash and the 220 yard dash. In the 440 Wadsworth and Mulliken have been doing the best work and should show up well. Leadbetter and (Continued on Page 3)

PRESIDENT WILL GIVE ADVICE TO FRESHMAN CLASS

Will Address Mass Meeting
Next Monday at 3 O'clock
In Room 10-250

President Samuel W. Stratton will address a meeting of the freshman class that will be held in Room 10-250 next Monday at 3 o'clock. It has been the custom in the past for the President to address the freshman class each year and to speak on various subjects that will help the first-year men become better adjusted to Technology life. All freshmen are expected to attend.

President Stratton will speak chiefly on the selection of the course that is best suited to the individual freshman. The various courses at the Institute will be briefly sketched and the outstanding and important points of each emphasized. This is calculated to enable the freshman to choose with more care and accuracy which course of study he would desire to follow.

In addition to advising on the choice of course, the President will probably explain some of the functions around Technology that are most likely not quite understood by the new men. The relations between the faculty and student body, the functions of the Dean, activities, and the system of student government will be spoken of briefly.

140 ATTEND BATON'S FIRST FORMAL DANCE

Approximately 70 couples were present at the formal dance held by Baton, honorary society of the Combined Musical Clubs, last Wednesday evening in the North Hall of Walker. The dancing started at 9 o'clock, and the festivities did not cease until 1. The Techonians' six-piece orchestra supplied the music for the occasion.

Refreshments, consisting of ice cream and cake, were served during the evening. Mrs. William P. Hall officiated as patroness.

REGAN ELECTED CLASS PRESIDENT; LARRABEE, DU PONT EXECUTIVES



JOHN W. REGAN, Jr.

Beaver Chosen as Permanent Design For Senior Rings

Dome is Rejected After Much
Discussion as Emblem
Of Technology

The question of a symbolical Senior Ring has finally been settled by the choice of the beaver as the official emblem of Technology by the Institute Committee. Following a heated discussion of the issue at the last meeting of the committee it was decided to postpone the matter until the next meeting which was held last night at 5:00 in Walker Memorial.

Two designs were under consideration as being most symbolical of the Institute. A minority favored the dome as being more dignified in appearance and typical as a representation of an engineering school. However, recognizing the fact that the beaver has been accepted by a late president as the mascot of Technology it was thought more desirable to use this in the design of the ring.

Favor Point for Glove Fight

Since the Executive Committee of the Athletic Association has the final authority in the matter of points given for events on Field Day, the Institute Committee found itself powerless to take any active measures in regard to a redistribution of points. The committee did go on record as favoring use of a point in the Glove Fight. It was felt that if the outcome of Field Day depended in part upon the result of the Glove Fight, it would promote more enthusiasm for the annual classic and give to the student body a better school spirit.

TECHNIQUE TO HOLD MEETING ON MONDAY

Group Picture Sign-ups Now
Taken—Time Limited

Technique wishes to announce a meeting of the freshman candidates and staff members in the Technique office in Walker Memorial next Monday at 5 o'clock. Freshman competition is still open and anyone interested in the work of the yearbook is urged to attend this meeting.

Group pictures are now being taken in Room 11-004, basement of the Homburg Infirmary, from 8 to 8:30 o'clock in the morning and from 5 to 5:30 o'clock in the afternoon. Appointments for these pictures may be made any day in the Main Lobby from 9-10 o'clock and from 12-2 and 4-5 o'clock. All the activities of the Institute, the fraternities and athletic teams whose pictures were in last year's Technique, as well as the class officers, are included.

YEARLINGS CAST RECORD VOTE IN CHOOSING OFFICERS

Huston and Bell are Elected
To Institute Committee
As 450 Vote

OFFICIALS IN APPROVAL

John W. Regan Jr. was elected president of the Class of 1933 Wednesday as the largest vote on record for the freshman class was cast. Those elected with him are: Vice President, Herbert M. Larrabee; secretary, Otto A. Putnam; treasurer, Pierre S. du Pont 3rd.; to the Institute Committee, Wilber B. Huston and Charles C. Bell; to the Executive Committee, Franklin M. Peck and Fred H. Cooper. Regan graduated from the Roxbury Latin School, where he was interested in dramatics. While at the Institute he has been elected leader of his section, and is a cadet sergeant. Larrabee, new vice president, prepared at Chauncy Hall, after participating in football and orchestra, which he has continued at Technology.

Putnam, secretary-elect, hails from Haverling High School, Bath, N. Y., where he made the football, basketball and track teams and was on the (Continued on Page 3)

Dorm Men Frolic At Second Dance Of Year Tonight

Collegian Ramblers Will Play
For Formal Affair
This Evening

For the second time this year the dorm men will gather and make merry at the formal dorm dance to be held this evening in the North Hall of Walker Memorial. The hall will be gaily decorated and lighted to furnish a suitable atmosphere for the event, and according to the announcement of the Chairman of the dance committee, Juel H. Lensch '30, the affair will be even bigger and better than its successful predecessors.

Tickets have been on sale during the past week, and at present the hall is nearly sold out. Only a few are still available, and may be obtained from any member of the committee or at the dorm office.

Dancing will last from 9 o'clock until 1, music being supplied by the Collegian Ramblers, the same popular orchestra which has played for so many dorm functions in the past. Mr. and Mrs. Thomas P. Pitre will officiate as patron and patroness at the affair.

A. I. E. E. DINNER IN NORTH HALL TONIGHT

Communications engineering will be the subject discussed at the second dinner meeting of the Student Branch, A. I. E. E. held tonight at 6 o'clock in the North Hall of Walker. Mr. J. H. Bigelow of the New York Telephone and Telegraph Company will address the gathering on the subject, "An Introduction to the Bell System and Its Work." It is hoped that this topic will prove interesting to the electrical students, particularly the freshmen and Sophomores, in giving an insight into the opportunities offered in this field of electrical work.

Admission cards to the dinner must be obtained by all who expect to attend. These may be secured from any member of the executive committee.

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HONOR BOUND

TYPIFYING the worst points of the "younger generation" as canted by the bigoted older people, Technology students have demonstrated a lack of appreciation for the work of the Chemistry Department. One hears often that the Institute takes on too much the air of a factory, and yet the efforts of the chemists to beautify their building are met by petty larceny.

The project made possible through a gift from Mrs. Moore, as is explained elsewhere in this issue, there have been hung in the corridors of Building Four a series of pictures. Each picture represents considerable work and money, and the whole makes up a valuable collection.

Maintaining this collection in its entirety places a trust on the student body. The man who removed one of these prints from the wall last summer violated this trust. He did not realize, perhaps, the value of each individual picture, nor the necessity for preserving the collection as a whole. He probably wanted a clever old-time cartoon, and allowed personal desires to supersede his thoughts for the rest of us.

We recommend a careful study of these pictures. No matter in what phase of engineering one's interests lie, he will gain a broadening knowledge from the collection. Particularly does it provide inspiration and incentive for those studying chemistry. Only by realizing fully the great good which this collection does will the students appreciate the trust they have been given. We appeal to gentlemen. This collection is for everyone's good—keep it intact.

OFFICIAL RECOGNITION

ACTION taken by the Institute Committee at its meeting last evening has definitely made the Beaver Ring the official emblem at Technology. In spite of an opinion expressed by a minority that the animal might just as well be a muskrat or hedgehog, the majority was in favor of a beaver rather than the dome as the design of the Senior Ring.

While it was admitted that the dome, the central figure of the Institute buildings, would be as symbolic of Technology as the beaver, adopted as a symbol during time of need for such several years ago, it was felt that other factors outweighed this sentiment. A ring with a dome in relief on its face would be, it was felt, too heavy. The sample of this kind was a ponderous affair, while the sample using the beaver was much more artistic. One representative stated that the dome design was "too much like a prep school insignia."

After considerable discussion it was decided to adopt an expensive ring, something which would be of intrinsic as well as sentimental value. Since it was to be good, said its exponents, it is much wiser to use the more beautiful design thereon.

It is hoped that the ring adopted at this time will be retained always as a standard. With its beaver, it will be symbolic of the Institute, and will be easily recognizable. The final design will be longer than it is high, and in this respect the ring will be distinctive. The Ring Committee reports that of five hundred samples, they only saw five or six of this type.

WALKER BLUE LAWS

SUNDAY is indeed a day of rest, but in spite of the legal regulations in Massachusetts, Technology is not doing its small part towards carrying out Sabbath observance. On the one evening which Institute students might devote to rest and relaxation in its lounges and library, Walker Memorial is closed.

There has been of late considerable expression of opinion by the dormitory men on this matter. They feel that many men would enjoy going over to Walker on Sunday evenings. While they are able to get supper that night at the dining room, that and the lounges are closed at seven. If they wish to read they must go to their own rooms instead of enjoying the comfortable quarters provided in the reading rooms. If they are interested in music, they must either go to a theater or locate a radio, while if the building were open ample opportunity for indulging a desire for the best in music would be available.

We trust that thoughtful consideration will be given this objection. Walker is for the students, and any changes for the good of the body should receive attention.

As We Like It

Seats for this play and other theatrical attractions at box office prices may be obtained from the T. C. A. office, Walker Memorial.

"SCARLET PAGES" THE PLYMOUTH

Exhibiting all the qualities that have made her so famous in her profession, Elsie Ferguson is affording Boston a dramatic treat in "Scarlet Pages," the current offering at The Plymouth. The very fact of her appearance in Boston is alone a matter of note, and one is doubly appreciative that she gives a performance so worthy of her reputation.

With great charm of voice and manner, Miss Ferguson dominates the play, and makes the most of the somewhat limited opportunities it gives. As a brilliant criminal lawyer, she enters into her role with a depth of feeling seldom seen on the stage, and makes of "Mary Bancroft" a character vividly alive.

The plot of the drama has to do with the trial of a cabaret entertainer wrongfully accused of the unjustified murder of her father, for which crime Miss Ferguson defends the girl. While convincing testimony builds up a sure case for the state, the audience witnesses a thrilling court room scene, and is tense with excitement until the harassed "Nora Mason" finally gives the real motive for the crime. As it is divulged, the successful career of her counsel tumbles into ignominy. But telling the whole plot would rob the evening of its zest.

Miss Ferguson, who makes a poetic gesture of smelling a vase of flowers, comes to the climax of her portrayal in the second act. The modern Portia rivals the medieval original in her masterful summation of the case, a speech exhibiting the star's extraordinary voice to great advantage. Kathryn March's interpretation of her difficult part of the murderess was uniformly good. As her sweetheart, Robert Williams gave a splendid performance. Assured and likeable, he was most authentic in his characterization, and his acting made a pleasing contrast to the seriousness of the rest of the cast.

"MEASURE FOR MEASURE" THE REPERTORY

One of Shakespeare's rarer plays is the offering at the Repertory in the final week of "Measure for Measure." It is the first production of this play in Boston in thirty years making it more unfamiliar even than their recent production of "A Winter's Tale."

Typically Elizabethan, in humor, in the mechanics of dramatic effects as in speech, the modern audience still finds much in the piece to hold its sympathetic interest. Much however has been done in the way of condensation of the originally rambling version and not a few of the more objectionable passages such as Mistress Overdone's chatter about the state of her business and the talk between Barnadine and Abhorson in the prison have very sensibly been omitted.

Lark Taylor plays the part of the Duke who leaves his affairs in the hands of his deputy, Angelo, played by Howard Kyle, while he dons a friar's garb the better to observe the government of his city. Angelo very presently gets into trouble by asking for the execution of a young nobleman, Claudio, on an old statute. To Claudio's sister, Isabella, he offers a liaison with him as the price of her brother's life. Then follow a swiftly moving succession of deceptions and disguises in a thoroughly Shakespearean manner to the final conquest justice, retribution and mercy.

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That Cynthia Brooke was out of cast in playing the role of the alluring novice to the sisterhood is perhaps only an attempt to make her apparent period of life conform to that of Angelo's. It would however seem much more reasonable had Cynthia Latham, who played the part of Angelo's jilted one, been cast in the role of the desired one.

Arthur Powers does a hilarious job with the low comedy and the cast as a whole shows an increasing capacity for working together as its members gain experience with Mr. Jewett's Shakespeare.

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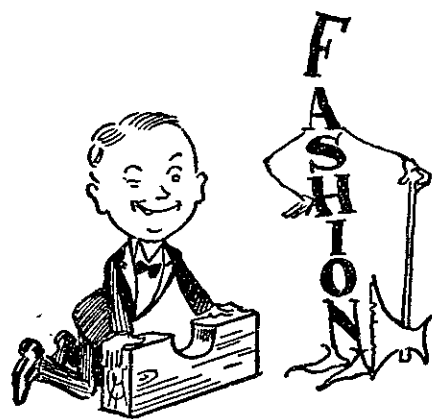
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BEAVER HARRIERS TO MEET NATION'S BEST IN I. C. 4A.

Bates to Send Men in Quest of Honors in 21st Annual Varsity Meet

23 COLLEGES WILL RUN

Next Monday afternoon both the Varsity and freshman cross-country teams will be pitted against the country's best in the annual I. C. A. A. A. cross-country run at Van Cortlandt Park in New York City. A total of 284 men, representing 23 colleges in the Eastern part of the United States, will take part in the 21st annual Varsity run. 195 men from 16 colleges will run in the 10th annual freshman event.

Bates is sending a Varsity team to New York to increase the prestige that this college has already gained in cross-country this year. The Bates harriers took the Maine State title away from the University of Maine earlier in the season and last week captured the N. E. I. C. A. A. title from eleven New England colleges and Universities.

N. Y. U. Has Good Team

New York University has the most promising team of the New York City teams. Last Tuesday in the New York Metropolitan College title races at Van Cortlandt Park, N. Y. U. finished first with a score of 24. Columbia was second with 31 while C. C. N. Y. came in third with a total of 68. Manhattan college was fourth and last with a score of 87. In this race N. Y. U. had nine men cross the line before the fifth man had crossed for Columbia. The N. Y. U. runners finished 2, 4, 5, 6, 7, 8, 11, 12, and 13, while Columbia men took 1, 3, 9, 10, 14. Hagen of Columbia was the individual winner with Lerner of N. Y. U. a close second.

The following is a list of the colleges entered:

Varsity	Freshman
Bates	Carnegie Tech
Carnegie Tech	Columbia
C. C. N. Y.	Cornell
Columbia	Dartmouth
Cornell	Fordham
Dartmouth	Maine
Fordham	Manhattan
Harvard	M. I. T.
Lafayette	N. Y. U.
Maine	Pennsylvania
Manhattan	Penn State
M. I. T.	Pittsburgh
Michigan State	Princeton
N. Y. U.	Syracuse
Pennsylvania	Union
Penn State	Yale
Pittsburgh	
Princeton	
Rutgers	
Syracuse	
Union	
Williams	
Yale	

FIRE COMMISSIONER ADDRESSES FACULTY

Institute Graduate Points Out Need of Prevention

Mr. Eugene C. Hultman '96, Fire Commissioner for the City of Boston, was the speaker at the luncheon meeting of the Faculty Club held Wednesday noon in the Faculty Dining Room of Walker. Mr. Hultman is a graduate of Course I at the Institute, and has held various positions of importance and prominence. During the war, he served in the capacity of Chairman of the Massachusetts Commission on the Necessaries of Life, and later he was engineer for the Board of Directors of the Boston Elevated Railway Co.

Mr. Hultman, in his address, emphasized the need for fire preventive measures, and the importance of such work. He also expressed the opinion that fire prevention should be made more of a science, and spoke of the need for research work on the subject.

MOTH CO. EMPLOYS MEMBER OF FACULTY

Professor Daniel C. Sayre of the Aeronautical Engineering Department has been made consulting engineer for the Moth Aircraft Company of Lowell, Mass. The production of airplanes at this factory is now established on the basis of two planes a week, and the service crews have recently been enlarged to take care of increasing service demands. The testing field adjacent to the factory has also been improved, a new runway having been provided by filling in swamp land.

Some interesting rules that have been, and are enforced against co-eds at various colleges have come to light. Curfew rings at 11:30 every night for the co-eds at the University of North Dakota, and the co-eds at the University of Detroit, although they number only fifty, have been forbidden to converse with the male students at any time or at any place on the campus.

Publications End Annual Game With Banquet at Club

Forward Passing Combination Of Smith to Truax Wins Game for Newsies

(Continued from page 1)
line. Here the newsies' line held and Herm Botzow, Technique fullback, threw a forward out of bounds. Here "Pat" Pattison, the referee, did not know what the rules were in such a case and so he put the ball on the twenty-yard line. THE TECH then started a drive down the field which was finally halted on Technique's 25-yard line. From then on until the end of the half the ball moved back and forth in the middle of the field.

Starting with the second half THE TECH made a concentrated drive down the field. Smashing line plays by the fullback Harry Kamy and end runs by Houston, Smith, and Davis netted three first downs. The team threatened to score but once again the opposing team held. Technique punted out of danger and the third quarter ended with the score still 0-0.

Truax Scores Touchdown

In the last quarter both teams saw-sawed back and forth for some time and then THE TECH started the drive down the field which finally resulted in a touchdown. By line plunges and end runs the team advanced to the 7-yard line when Technique's line held for three downs. With the end of the game only a few minutes away the one touchdown of the game was made. The point after the touchdown was scored by a pass to Roddy. Shortly after the ball was again put into play the game ended with the newsies victors over the year book men for the second consecutive year.

Dine at Engineers' Club

On Wednesday night the losing team played host to the winning team at a banquet at the Engineers' Club. At that time the winners were presented with the engraved stein by Starratt, which will remain in THE TECH office for the coming year. The lineup was as follows:

Technique	The Tech
Starratt, qb. qb., Roddy, Davis	
Botzow, fb. fb., Kamy	
D'Antoni, lh. lh., Houston	
Starr, rh. rh., Smith	
Lyon, le. le., Truax	
Alkazian, lt. lt., Worden	
Paltze, lg. lg., Harmon	
Porter, c. c., Verveer	
Wyman, re. re., Newman	
Morean, rt. rt., Barker	
Vye, rg. rg., Connable	
Substitutes: Technique, Norris, Whittaker, Loustanaau.—THE TECH, Hubbard, Fleming, Bond, Bahr, McLaughlin, Fahnestock, Holst, Ellis.	

STUDENTS INVITED TO HEAR LECTURE

Professor Bodenstein, Eminent German Chemist, to Talk At Harvard

Professor Max Bodenstein will lecture in English at Harvard University on the subject "Mechanism of Chemical Reaction" at 4:30 next Friday at Harvard. All students of Technology and other schools of the community are invited to attend the lecture. Professor Bodenstein's eminent reputation certainly demands the presence of all those for whom it is possible since he is one of the leading authorities in Physical Chemistry today. On Saturday, November 30, he will visit Technology.

Professor Bodenstein is Director of the Physical Chemistry Institute of the University of Berlin, which is a leading position in the field of Chemistry in Germany. For the past thirty years he has been actively engaged in research work and the hundreds of papers published by him have attracted world-wide attention.

His data on chemical equilibrium have never been improved upon even with the better technique of today. His accomplishments have also been exceptional in chemical kinetics and photochemistry; the work on the latter has been classical.

Professor Bodenstein is also editor of the magazine Zeitschrift für Physikalische Chemie, which is the German organ for Physical Chemistry.

This fall Professor Bodenstein was a distinguished guest at the fall meeting of the American Chemical Society held at Minneapolis. Since then he has visited different universities throughout the United States. Before coming to Cambridge, he gave a series of lectures at Johns Hopkins University.

Fruit sellers in the vicinity of Columbia University recently experienced a "run on the market" when chemistry students, lacking a supply of citric acid for use in certain experiments, went out hunting for lemons and bought up all they could find.

REGAN IS ELECTED TO HEAD FRESHMEN

Huston and Bell are Elected To Institute Committee As 450 Vote

(Continued from page 1)
staff of the school annual. He attended the freshman camp. duPont prepared at Tower Hill and Exeter, where he participated in football, basketball and dramatics. At the Institute he has gone in for Tech Show, swimming and lacrosse.

Of the new members of the Institute Committee, Wilber B. Huston, Edison scholarship winner, is from Seattle, Wash., and is interested in fencing. He also attended the freshman camp. Charles C. Bell went to High School in Westfield, N. J. He attended the freshman camp, and rowed on the freshman crew.

Peck, of the executive committee, is a graduate of Worcester Academy, and was quite an athlete. His fellow-committeeman, Cooper, hails from Dallas, Texas, where he played tennis and participated in the Glee and Minstrel clubs.

The vote of 450, is the largest freshman vote on record. This may be attributed to either the large size of the class, or to a greater enthusiasm and interest in the elections.

Voo Doo Wildcats Annihilate Green Dragon of T.E.N

Annual Football Game Leaves Voo Doo Victor for Third Time

Wallowing through four inches of snow, in a game marked by frequent fumbles on both aggregations, the Voo Doo Wildcats again swept the T. E. N. Dragons down a slushy gridiron to a decisive defeat of 13-0. Due to lack of practice and absence of definite signal preparation the Voo Doo eleven exhibited discrepancies that at first made the two teams appear well matched but after the first quarter the slaughter became apparent.

Burdick Starts Onslaught

The futile efforts of T. E. N. to withstand the Wildcat onslaught proved disastrous on the slushy gridiron when Burdick intercepted one of their forwards as it dribbled through a maze of hands and romped through slush to the tune of forty-five yards. At the time Voo Doo was perched perilously on the ten-yard line. Kenney, Voo-Doo fullback broke through for the first touchdown by a tricky end run in the second quarter, followed by a second touchdown by Dickinson in the third on a fake end run. Anderson on a faked punt formation plunged through for the extra point.

The line-up was as follows:

Voo Doo	T. E. N.
Kenney, f.b. f.b., Haskel	
Dickenson, q.b. q.b., Edlund	
Teague, h.b. h.b., Shelby	
Burr, r.e. r.e., Johnson	
Chambers, r.t. r.t., Grosser	
Sibley, r.g. r.g., Kropf	
Jarosh, c. c., Gardener	
Burdick, l.g. l.g., McGuire	
Harper, l.t. l.t., Stuart	
Hodge, l.e. l.e., Raymond	
Anderson, r.h. r.h., Spreen	
Substitutes—Holden, Cambridge, Substitutes—Ladd, Edelstein.	

CHEMISTS TO VISIT MYSTIC IRON WORKS

The Mystic Iron Works will be visited by the Chemical Society on a trip that will be held next Tuesday at 2 o'clock. Those members who wish to make this trip are requested to sign up in Room 10-100 in order that the number intending to make the trip may be known.

Freshman Team Is Favored to Take The Interclass Meet

First-year Men are Required To Take Part in Races Held Tomorrow

(Continued from page 1)
Medrano seem to be the favorites for the half-mile run.

Coon, Zigler, and Butkis have shown up the best in the high jump while Zigler, Kinraide, and Soisalo are the favorites for the broad jump. The pole vault has Hazeltine, Morse, and Snow as its best entrants. Brown, Burley, Hall, and Kimball are amongst the best out for Javelin.

In the weight events Grondal figures as the best in both the shot put and the discus. Dahl-Hansen and McAleer are also entered in the shot put while Brown and Etstein make up the exceptional entries in the discus. The Hammer throw is livened by the entrance of Champlain, Hall, and Brown.

The following events will be held:

- 100-yard dash
- 220-yard dash
- 440-yard dash
- 880-yard run
- One mile run
- Two mile run
- 120-yard low hurdles
- 220-yard high hurdles
- Hammer throw
- Shot put
- Discus throw
- Javelin throw
- Broad jump
- High jump
- Pole vault

From the performances turned in during the handicap meets held this fall the freshman class seems to have the edge on the other undergraduates. The Sophomores and Juniors have a number of stars but some of them will be unable to compete due to the cross-country meet occurring the following Monday.

BIG ATTENDANCE AT FIRST GYM BANQUET

With the largest attendance recorded during the history of this event, Wednesday night's Gym Team Banquet initiated the 1929-30 season of these bi-monthly gatherings. Among the speakers for the evening were Captain David Q. Wells, Coach Forest, Henry P. McCarthy and J. V. Whipple, captain of the gym team of 1921. Attending freshmen were given a few words of welcome and the work was outlined for the coming year.

REPERTORY

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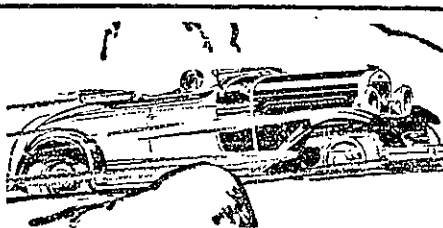
Saturday Transcript

Football Extra

November 23

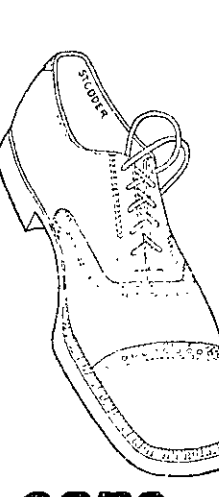
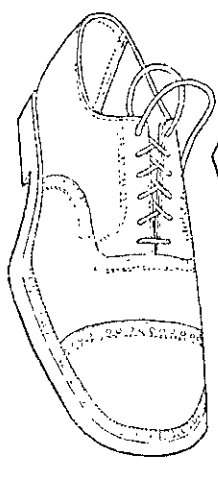


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NOTICES - ANNOUNCEMENTS Of General Interest

Faculty Club Luncheon Meeting Mr. Eugene C. Hultman '96
Wednesday, November 20, 12 M., Walker Memorial,
Faculty Dining Room

Mr. Hultman, Fire Commissioner for the City of Boston, will be the speaker at the Faculty Club Luncheon Meeting. The subject of his talk will be "Fire."

CALENDAR

Friday, November 22

4:00—Photographic Society Meeting, Room 1-190
6:00—A. I. E. E. Dinner Meeting, North Hall, Walker
8:30—Dorm Dance, North Hall, Walker
9:00—Architectural Society Dance, Rogers Building
9:00—Military Ball, Longwood Towers

Monday, November 25

6:30—Alumni Council Dinner Meeting, Faculty Dining Room, Walker
5:00—Meeting of Freshmen Rules Committee, Institute Committee Room

Tuesday, November 26

5:00—M. I. T. A. A. Meeting, North Hall, Walker
6:00—Alpha Chi Sigma Dinner Meeting, Grill Room, Walker
7:30—Tech Show Rehearsal, Walker Gym

Elaborate Working Model of Dam And Power Plant Displayed in Bank

Largest Power Development in New England Shown in Miniature

One of New England's largest hydro-electric developments is at present on display in miniature in the main banking room of the Central Trust Company near Central Square, Cambridge. Here is reproduced to scale the gigantic Davis Bridge Dam and the Harriman Station of the New England Power Company. The outfit is, in outward appearance, an actual working model, and shows the complete course of the water from the reservoir through the station to the river below.

The Davis Bridge development was begun in 1922 and completed in 1924, and has engaged the special interest of engineers the world over, principally because the dam is one of the largest in the world made by the modified hydraulic earth fill process. It is located on the Deerfield River near the town of Whitingham, Vermont, and is 200 feet in height, 1300 feet wide at the base, 1250 feet long on the crest, and contains 1,900,000 cubic yards of earth. The reservoir which it creates has a capacity of 38,000,000,000 gallons of water.

Dam Prevents Floods

While the actual function of the dam is to conserve the water from the rains and the melting snow in the spring, it also acts as a flood preventative. During the flood of November, 1927, it was due to this dam that the Deerfield River valley was saved from the widespread destruction which accompanied the flood stage of every other New England river. The dam is said to have caught and held, with a neighboring reservoir, over 15,000,000,000 gallons at that time.

From the reservoir the water drops over the edge of a circular spillway and falls vertically 130 feet, to discharge through a tunnel 2½ miles in length. This tunnel is 14 feet in diameter, and ends in three penstocks, which lead the water to the turbines and generators in the power house. To prevent rupturing the penstocks when the turbines are shut down due to loss of load, a surge tank is located at the point where the water leaves the tunnel and enters the penstocks. This is located on the side of the mountain above the generating station.

The entire process is demonstrated with water in the model. The dam and spillway are made to a scale of 400 to one. Although in the actual prototype the distance from the reservoir to the station is about three miles, the scale distance is considerably shortened in the model in order to confine it to reasonable dimensions.

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Reproduction Replaces Caricature Stolen From Memorial Collection

Demonstration of Laughing Gas to Eighteenth Century Audience is Theme

Depicting the first use of laughing gas, with the experimenters Davy and Rumford subjecting a volunteer to its effects, this picture has recently been hung in the first floor hall of Building 4. During the month of August, a like picture was stolen from the same place, and although it was recalled that a group of young men had been seen near the picture shortly before the theft, the picture was not recovered. A duplicate was therefore made, and this is the picture recently hung. It is a cartoon of the experiment which was performed at a meeting of the Royal Institution of London. The cartoon, in addition to being an excellent example of early humorous caricature is extremely interesting because of its portrayal of the general attitude toward science in the middle 18th century.

Part of Valuable Collection

The replaced picture is one of a group of one hundred and fifteen hanging in the halls of Building Four. The group is a part of the growing chemical historical collection at the Institute which is made possible from the income on a sum of money given to the chemical department by Mrs. F. J. Moore. The late Professor F. J. Moore was always interested in chemical history and wrote a history of chemistry while at the Institute. The gift was made with the stipulation that the derived interest be utilized in making the study of chemistry as interesting as possible to the students. The result is a unique and instructive collection of portraits of scientists from all over the world.

A Biography of Each

An outline of the lives of the famous chemists whose photographs are included has been prepared, the individual brief biography appears on each of the pictures. Professor H. Monmouth Smith, in speaking of the collection, said, "The complete set of pictures could not be duplicated without great expense and trouble. Several of the pictures were made from old European prints and are probably the only ones in America, many of them are from plates made from cuts in old journals." Professor Smith also said that the actual value and safety of the student body.

Besides the photographs hanging in the first and second floors of Building Four, there are also a group of cartoons and duplicates of medals of other noted chemists which Professor Smith obtained while in France. These may be seen in the chemical reading room. The medals are in bronze. They are heavy, yet clearly-

cut and are about the size of a playing card. They were made by the French mint.

Rumford Most Romantic

The galaxy of chemists whose likenesses make up this group presents an astonishing number of those who were not only great scientists but also great humans. There is Albert Lardenburg, German chemist and writer who in one year lost his wife and

eldest son and underwent the amputation of one leg, but continued his work at the University of Breslau. There is Chevreul, the French chemist, who on his one hundredth birthday received honorary degrees from universities of all the world. He lived to be one hundred and three. Perhaps the most interesting biography is that of Count Rumford, born in Woburn, Mass. in 1753. He began his career as a teacher in the town of Rumford, now Concord, New Hampshire, but having taken part in the political movements of the time he was sent to England by General Howe as dispatch-bearer. There he occupied the position of under-secretary of state in the Colonial office and then returned to America to fight for the king. Afterwards he served under the King of Bavaria and was created a count of the Holy Roman Empire. He next formed the Royal Institution of London and then moved to Paris where he married the widow of the celebrated chemist, Lavoisier. He soon separated, however, from that lady and went to Auteuil where he remained until his death in 1814. Not far from Rumford's picture is that of Lavoisier, who was guillotined during the Revolution for adulterating tobacco. There is also a copy of a sketch of Lavoisier, done by his wife, in his laboratory. Mme. Curie is of course included and is the only woman.

The entire collection has proved not only interesting and impressive to the students as evidenced by the number pausing in the halls to look at it, but also to visitors, as Professor Smith has received letters from all over the United States requesting information concerning the pictures.

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CHESS CLUB

All members listed on chess tournament sheet posted at entrance to East Lounge are requested to play their matches immediately.

PHOTOGRAPHIC SOCIETY

The next meeting of the Technology Photographic Society will be held this afternoon at 5 o'clock in room 5-130. Any one interested in Photography is invited to attend and learn about the activities of the club.

TECH SHOW

There will be a meeting of all candidates for the stage and production departments of Tech Show Monday at 5 o'clock in the Show office, Room 301 Walker Memorial.

FRESHMEN RULES COMMITTEE

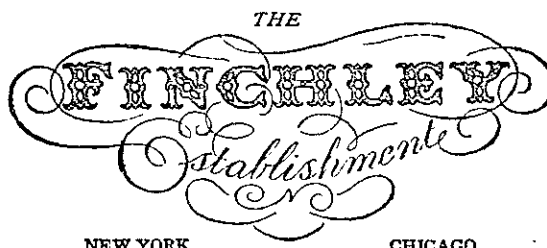
There will be a meeting of the Freshmen Rules Committee Monday night at 5:00 in the Institute Committee Room.



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